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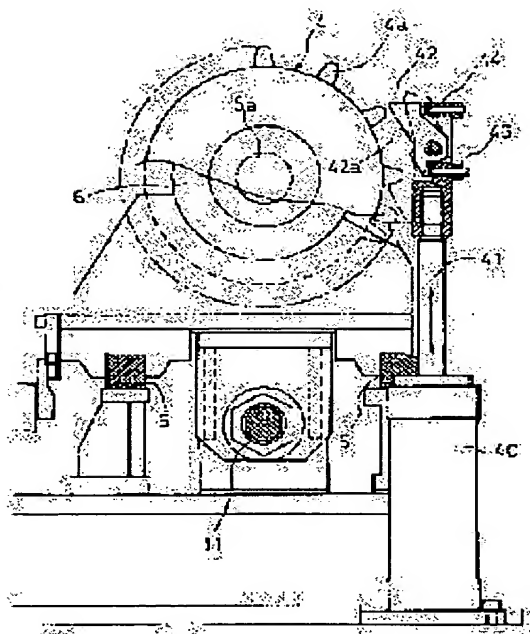
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## (54) TEST RUN METHOD FOR ENGINE

(57)Abstract:

PURPOSE: To allow smooth fitting of a spline shaft to a female spline while sustaining free rotation until touching to the female spline by imparting rotary inertial force to the spline shaft prior to fitting to the female spline.

CONSTITUTION: After an engine is clamped from above and the stopper for a movable bearing 6 is switched depending on the type of engine, piston 41 of a pneumatic or hydraulic cylinder 40 is lifted thus engaging a click 42 with a tooth 4a to rotate a sprocket 4. At the same time, the bearing 6 is advanced by means of the pneumatic or hydraulic cylinder 11 and a spline shaft imparted with rotational force rotates freely and comes into contact with an end of a female spline while decelerating and then decelerated abruptly to be inserted therein smoothly. Rotary motion is stopped by load torque on engine side immediately after fitting and since the spline shaft has slim tooth cross-section and clearance is provided in the peripheral direction, smooth insertion is realized at all times even if the female spline and the spline shaft are not aligned strictly.



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